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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,318	01/04/2005	Koen Maertens	17932	2554
²⁶⁶³⁷ CNH AMERIC			EXAM	INER
	01/04/2005 Koen Maertens 17932 2554 7590 05/08/2007 RICA LLC TUAL PROPERTY LAW DEPARTMENT STREET ARTIQUE PAREN NUMBER			
	700 STATE STREET RACINE, WI 53404		ART UNIT	PAPER NUMBER
ŕ			2125	·
			MAIL DATE	DELIVERY MODE
	•		05/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/520,318	MAERTENS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sean P. Shechtman	2125			
The MAILING DATE of this communication a					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perioder failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT ute, cause the application to become ABA	CATION. Exply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22	March 2007.				
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow	•	• •			
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims	·				
4)⊠ Claim(s) <u>10-12 and 14-16</u> is/are pending in t	he application.				
4a) Of the above claim(s) is/are withdr	rawn from consideration.				
5) Claim(s) <u>15 and 16</u> is/are allowed.					
6) Claim(s) 10-12 and 14 is/are rejected.					
7) Claim(s) is/are objected to.	Var alactica requirement				
8) Claim(s) are subject to restriction and	vor election requirement.				
Application Papers					
9) The specification is objected to by the Examin	ner.				
10)⊠ The drawing(s) filed on <u>04 January 2005</u> is/a	, , , , , , , , , , , , , , , , , , , ,				
Applicant may not request that any objection to the	• , ,	• •			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the					
Tr) The dath of declaration is objected to by the	Examiner. Note the attached	Office Action of form F10-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. §	119(a)-(d) or (f)			
a) ⊠ All b) □ Some * c) □ None of:	nto have have reactived				
1. Certified copies of the priority docume2. Certified copies of the priority docume		onlication No			
3. Copies of the certified copies of the pr	•	•			
application from the International Bure	•				
* See the attached detailed Office action for a lie		received.			
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 		formal Patent Application			

Application/Control Number: 10/520,318 Page 2

Art Unit: 2125

DETAILED ACTION

1. Claims 10-12, 14-16 are presented for examination. Claims 10, 12, 14, 15, 16, have been amended. Claims 1-9, 13, 17-21 have been cancelled.

Specification

2. Objections withdrawn in light of the amendment.

Claim Objections

3. Claim 10 is objected to because of the following informalities: Referring to claim 10, line 11, "exp(gu(t)) 1" should be "exp(gu(t)) - 1". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 10-12, and 14, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 10, none of the variables of the estimation function have been defined, and therefore the claim fails to particularize the subject matter of the invention. For purposes of examination, it will be assumed that y'(t,g) is the losses of usable crop parts, t is time, g is the stochastic parameter, u(t) is the feedrate of crop into the harvesting machine, and exp is an exponential function. Claims 11, 12, and 14 depend from claim 10 and therefore inherent the same deficiencies and assumptions.

Claim Rejections - 35 USC § 101

5. Rejections withdrawn in light of the amendment.

Application/Control Number: 10/520,318 Page 3

Art Unit: 2125

Claim Rejections - 35 USC § 102

6. Rejections withdrawn in light of the amendment.

Allowable Subject Matter

7. Claim 10 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Neither Watt nor the prior art of record, taken either alone or in obvious combination disclose a method of operating a harvesting machine having all the claimed features of applicant's instant invention, specifically including: the step of adjusting a performance variable of the harvesting machine occurs in dependence on the output of an inverted form of a yield loss estimation function $y'(t,g) = \exp(gu(t)) - 1$; wherein y'(t,g) is the losses of usable crop parts, t is time, g is the stochastic parameter, u(t) is the feedrate of crop into the harvesting machine, and exp is an exponential function. It is for these reasons that applicant's invention defines over the prior art of record. Claims 11, 12, and 14 depend from claim 10 and are therefore also allowable.

8. Claims 15-16 are allowed.

Referring to claim 15, while Watt teaches a method of mapping one or more field lots for variations in a stochastic parameter that characterizes the instantaneously prevailing readiness with which crop is processed in a harvesting machine (Col. 17, line 66, - Col. 18, line 42), the method comprising the steps of: operating a harvesting machine to harvest crop in a field lot (See Fig. 4, element 160); measuring the machine effectiveness (Col. 25, lines 51-54) and determining the position of the machine in the field lot (Col. 11, lines 22-23); and mapping the optimized parameter value g' so as to produce a parameter map of the field lot (Fig. 4; Col. 18, lines 10-15; Col. 11, lines 15-27).

Application/Control Number: 10/520,318 Page 4

Art Unit: 2125

Neither Watt nor the prior art of record, taken either alone or in obvious combination disclose a method of mapping one or more field lots for variations in a stochastic parameter g that characterizes the instantaneously prevailing readiness with which crop is processed in a harvesting machine having all the claimed features of applicant's instant invention, specifically including: simultaneously measuring a machine load and the machine effectiveness and determining the position of the machine in the field lot; storing data indicative of the position of the harvesting machine at time t; using the measured machine load data u(t), and machine effectiveness data y(t) in an optimization of said parameter; and mapping optimized parameter values obtained from the step of using the measured machine load data u(t) and machine effectiveness data y(t) in an optimization of said parameter; so as to produce a parameter map of the field lot. It is for these reasons that applicant's invention defines over the prior art of record. Claim 16 depends from claim 15 and is therefore also allowable.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean P. Shechtman whose telephone number is (571) 272-3754. The examiner can normally be reached on 9:30am-6:00pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/520,318

Art Unit: 2125

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Page 5

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May 4, 2007

Sean P. Shechtman Son Slechtm

May 4, 2007

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